



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/797,970	03/11/2004	Hao-Cheng Lin	SIPT122573	6268
26389	7590	01/31/2006	EXAMINER	
CHRISTENSEN, O'CONNOR, JOHNSON, KINDNESS, PLLC			PAPE, ZACHARY	
1420 FIFTH AVENUE			ART UNIT	
SUITE 2800			PAPER NUMBER	
SEATTLE, WA 98101-2347			2835	

DATE MAILED: 01/31/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Bj

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/797,970	LIN, HAO-CHENG	
	<b>Examiner</b>	<b>Art Unit</b>	
	Zachary M. Pape	2835	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 11 March 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 March 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)             | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Wang (US 5,917,697).

With respect to claim 1, Wang teaches, a heat-dissipating device adapted for dissipating heat generated by a component in a computer casing, the computer casing being formed with a vent hole, said heat-dissipating device comprising: a flexible tubular conduit (15) adapted to be disposed in the computer casing, and having a first end (20) adapted to be connected to the computer casing such that said first end of said tubular conduit is registered with and communicates fluidly with the vent hole (See Wang, Column 2, Lines 35-38), and a second end (14) opposite the first end; and a fan unit (13) mounted on said second end of said tubular conduit (As illustrated in Fig 2) and adapted to be mounted in the computer casing such that said fan unit confronts the component in the computer casing, said fan unit being operable so as to generate air currents that flow through said tubular conduit for cooling the component in the computer casing.

With respect to claim 2, Wang further teaches that the fan unit is operable such that air is drawn into said tubular conduit via said first end of said tubular conduit and

Art Unit: 2835

such that the air in said tubular conduit is released via said second end of said tubular conduit.

***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wang in view of Greisz (US 5,730,770).

With respect to claim 3, Wang teaches the limitations of claim 1 above, but fails to teach an air filter. Greisz teaches the conventionality of utilizing an air filter with an electronic enclosure at a first end thereof. It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Greisz with that of Wang to provide adequate protection of electronic components (Column 1, Lines 18-22)

**Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wang in view of Borrell (US 5,704,832).**

With respect to claim 4, Wang teaches the limitations of claim 1 above, but fails to teach a fragrance dispenser mounted at either the first or second end. Borrell teaches mounting a fragrance dispense on one end of a heat-dissipating device

Art Unit: 2835

(Column 5, Lines 41-54). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Borrell with that of Wang to provide a pleasant aroma to the ventilation system (Column 1, Lines 11-12).

**Claims 5-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wang in view of Steiert (US 5,790,430).**

With respect to claim 5, Wang teaches the limitations of claim 1 above, but fails to teach a detecting circuit with a temperature sensor. Steiert teaches the conventionality of utilizing a detecting circuit (15) with a temperature sensor (19). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Steiert with that of Wang to provide improved cooling of electronic equipment (Steiert, Column 1, Lines 34-39).

With respect to claim 6, Steiert further teaches that the temperature sensor is a thermistor (19).

With respect to claim 7, Steiert further teaches that the temperature sensor is adapted to be mounted in the computer casing adjacent to the component (Column 3, Lines 1-6).

With respect to claim 8, Steiert further teaches that the detecting circuit (16) is coupled to said fan unit and configured to control the operating speed said fan unit according to the temperature inside the computer casing (As illustrated in Fig 1).

With respect to claim 9, Steiert further teaches that the detecting unit (15) is configured to generate an alarm output according to the temperature inside the computer casing (Steiert, Column 5, Lines 12-18).

With respect to claim 10, Steiert further teaches that the detecting unit is configured to generate a deactivate command according to the temperature inside the computer casing (Column 6, Lines 9-12).

### ***Conclusion***

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US 5,566,377; US 6,570,760; US 6,657,863; US 6,920,044; US 2005/0174732; US 6,404,630; US 6,125,924 both further teach cooling of a CPU via tubes.

US 6,400,045 further teaches a cooling fan controller.

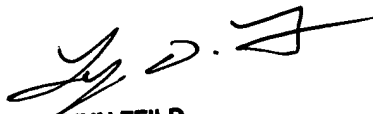
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Zachary M. Pape whose telephone number is 571-272-2201. The examiner can normally be reached on Mon. - Thur. & every other Fri. (8:00am - 5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynn Feild can be reached at 571-272-2092. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2835

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ZMP



LYNN FEILD  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800